

FIGURE 1

1 TCTAGAGTCA AATGTGCCTT ATTATCAGTA CAAAAATAAA TGGTGTGAGC
51 TGGGTGCAGT GACTCACACC TGTAATCCCA GCACTTTAAG AGGCTGAGGC
101 AGGTGGATCA CCTGAGGCCA GGAGTTTGAG ACCAGCCTGG CCAACATGGT
151 GAAACCACAT TGTCAGGCCT CTGAGCCCAA GCCAAGCCAT CGCATCCCCT
201 GTGACTTGCA CGTATACATC CAGATGGCCT GAAGTAACTG AAGATCCACA
251 AAAGAAGTAA AAATAGCCTT AACTGATGAC ATTCCACCAT TGTGATTTGT
301 TTCTGCCCCA CCCGAAGTGA TCAATGTACT TTGTAATCTC CCCCACCCTT
351 AAGAAGGTTT TTTGTAATTC TCCCCACCCT TGAGAATGTA CTTTGTGAGA
401 TCCACCCCTG CCCACAAAAC ATTGCTCTCA ACTTCACCAC CTATCCCAAA
451 ACCTGTAAGA ACTAATGATA ATCCATCACC CTTTGCTGAC TCTCTTTTCG
501 GACTCAGCCC GCCTGCACCC AGGTGAAATA AACAGCCATG TTGCTCACAC
551 AAAGCCTGTT TGGTGGTGTC TTCACACAGA CGCGCATGAA ACACATCTCT
601 ACTAAAATA CAATAATCAG CTGGGCGAGG TGGCTCACAG CTGTAATCTC
651 AGCACTTTGG GAGGCCGAGA CAGGCAGGTC ACTTGAGGCC ATGAGTTCGA
701 GACCAGCCTG GCCAACATCG TGAAAACCCC ATCTCTACCA AAAATACAAA
751 AACTAGCCAG ATGTGGTGGC GCACGCCTGT AATCCCAGCT ACTCGGGAGG
801 CTGAGGTACC GAATCGTCTG AACGTGGGAA GTGGAGCTTG TAGTGAGCCG
851 AGATCGCCCC ACTGCACTCC AGCCTGGGCA ACAGAGCTAG ACTGTCTCAA
901 AACAAACAAA AAATGGTGTC AAGACTCTCA GACGAGATTC TAATGGATTA
951 AGGCCTATAT GTAAATAGCA CCAAAGACTA TGGAACAGAG ATGGGAGAAG
1001 CAAGCAGGGA GGCAGGAATA GTTTAGCTGT GGCAGTTTTA GCTTAGTCCA
1051 CTTACATAAA TGGTTCTTTA GGGTAGCACG TGGAGCATCC TCATTTCCAA
1101 ACATTGGACT GAGAGTAGAG AGCTGTGCAA AATAACCACA AGTCCCCAAC
1151 TATGCCCTCT TAATTATCCC TATCATCTAA GACTGTTGTT CCCATCCATC
1201 ACTGAACTTC CCCGTCCTCT TCCTTCAACC CCTGTGTTAG TCAATGGTTG

FIGURE 1 CONT'D

1251 AAATTTTGAT TTGGTAAAAA ACCTCTGGCG AAAACCAGCA AAAAGGGCTC
 1301 ACAAATCAGG TCTCAGGGAA GCACAGAGGT AGCCACGAGA AGGCCCCGAGG
 1351 TGCTCATGGA AAGAGCTCGA GCCCAGGAGC TCTGGGAGGA CCCCAGGCGC
 1401 TCGGAGCCGC CGTTACGTAA CCGGCACTCA GAGCCTCCGA AGACCGGAAG
 1451 GCCCCGCTCA GGCCCCGGCC CCGGCCCCCG CCCC GCCCGG CCCCCG
 1501 GCAGCTGGTA GGTGCCGTGC GCAACCCTCC GGAAGCTGCC GCCCCTTTCC
 1551 CCTTTTATGG GAATACTTTT TTTAAAAAAA AAGAGTTTCG TGGCGCCACC
 1601 CCGTAGGACT GGCCGCCCTA AAACCGTGAT AAAGGAGCTG CTCGCCACTT
 1651 CTCACCTCCG CTTCTTCCA GTAAGGAGTC GGGGTCTTCC CCAGTTTTCT
 1701 CAGCCAGGCG GCGGCGGCGA CTGGCAatgT TTGGCCTCAA AAGAAACGCG
 1751 GTAATCGGAC TCAACCTCTA CTGTGGGGGG GCCGGCTTGG GGGCCGGCAG
 1801 CGGCGGCGCC ACCCGCCCCG GAGGGCGACT TTTGGCTACG GAGAAGGAGG
 1851 CCTCGGCCCC GCGAGAGATA GGGGGAGGGG AGGCCGGCGC GGTGATTGGC
 1901 GGAAGCGCCG GCGCAAGCCC CCGTCCACC CTCACGCCAG ACTCCCGGAG
 1951 GGTCGCGCGG CCGCCGCCCA TTGGCGCCGA GTCCCCGAC GTCACCGCGA
 2001 CCCCCGCGAG GCTGCTTTTC TTCGCGCCCA CCGCCGCGC GGCGCCGCTT
 2051 GAGGAGATGG AAGCCCCGGC CGCTGACGCC ATCATGTGCG CCGAAGAGGA
 2101 GCTGGACGGG TACGAGCCGG AGCCTCTCGG GAAGCGGCCG GCTGTCTCTGC
 2151 CGCTGCTGGA GTTGGTCGGG GAATCTGGTA ATAACACCAG TACGGACGGG
 2201 TCACTACCCT CGACGCCGCC GCCAGCAGAG GAGGAGGAGG ACGACTTGTA
 2251 CCGGCAGTCG CTGGAGATTA TCTCTCGGTA CCTTCGGGAG CAGGCCACCG
 2301 GCGCCAAGGA CACAAAGCCA ATGGGCAGGT CTGGGGCCAC CAGCAGGAAG
 2351 GCGCTGGAGA CCTTACGACG GGTTGGGGAT GGCGTGCAGC GCAACCACGA
 2401 GACGGCCTTC CAAGgtaagg ggggtcatta atcgccaagg cctcactccc
 2451 tttttccat ctctccccg actcactcgc caaggggtggg ttggaaccg
 2501 aaacgagtca ggttgaaac ggtgtcctc ctattcctga agccagaata
 2551 ttctggccat gagtcttgt ttccgcccatt ctgattctt ttggaatgg

FIGURE 1 CONT'D

2601 cagctcttgt tcaaagaccg gaaaggggtgg gatgtcaatt tcaagtggg
 2651 tcaacctgag ttctgtaa at cccagtagcg atttccgc cgcggtggg
 2701 caggcgaatc ttgcgccgt ttagacaaag gaggccgtga ggacctgcat
 2751 gcttttctt ctcagGCATG CTTCGGAAAC TGGACATCAA AAACGAAGAC
 2801 GATGTGAAAT CGTTGTCTCG AGTGATGATC CATGTTTTCA GCGACGGCGT
 2851 AACAACTGG GGCAGGATTG TGA CTCTCAT TTCTTTTGGT GCCTTTGTGG
 2901 CTAAACACTT GAAGACCATA AACCAAGAAA GCTGCATCGA ACCATTAGCA
 2951 GAAAGTATCA CAGACGTTCT CGTAAGGACA AAACGGGACT GGCTAGTTAA
 3001 ACAAAGAGGC TGGgtaagtt tgccttaagg atgaaagggg ccttgagtg
 3051 gagtggaagt agaataagg atttttta gagaggtggg gatatctaaa
 3101 ggttttatg acgcacggct gttgcaggc tctaactaaa ggaccattgt
 3151 ttatttgatt ttaagtagt ggatccttag agatagtgt atggcggtct
 3201 tgaattgat caaaaatctt gttttctct aggcaattt ttgtccaat
 3251 tcagttgaat actcttcagt ggattcaaac catgaaaaaa taagtcacca
 3301 ggggaggata gctgaaataa ttctaaggc ggtgcctgtt ttaatggaga
 3351 agatatgggg tggagcctgc gtttaaaca aaccagatc tgatgcagga
 3401 tgtacttaac tacgttgaga aaaactgatc tgcgcaattg aggcgttact
 3451 gaaatattag gtggtggaga ttgagaata agggtttctg tctttacct
 3501 catgggaact ctggaagtcc tttgttagg ataaatccta ataagacct
 3551 gatagtactg taaaatgaag ttaattatc atgggtccc gcttaagaaa
 3601 ctgaagaact tatttctt tttgccccg ggtgaataa taattggtt
 3651 actattgctt tagggggaaa ccttagatat ttaatttac ctctctctg
 3701 gatagtagtg ttgtaagag agcagaaacc cattcttgaa aatgtgctt
 3751 tcttttgt tttctagGAT GGGTTTGTGG AGTTCTTCCA TG TAGAGGAC
 3801 CTAGAAGGTG GCATCAGGAA TGTGCTGCTG GCTTTTGCAG GTGTTGCTGG
 3851 AGTAGGAGCT GGT TTGGCAT ATCTAATAAG AtagCCTTAC TGTAAGTGCA
 3901 ATAGTTGACT TTTAACCAAC CACCACCACC ACCAAAACCA GTTTATGCAG

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FIGURE 1 CONT'D

3951 TTGGA~~CT~~CCA AGCTGTA~~ACT~~ TCCTAGAGTT GCACCCTAGC AACCTAGCCA
 4001 GAAAAGCAAG TGGCAAGAGG ATTATGGCTA ACAAGAATAA ATACATGGGA
 4051 AGAGTGCTCC CCATTGATTG AAGAGTCACT GTCTGAAAGA AGCAAAGTTC
 4101 AGTTTCAGCA ACAAACAAAC TTTGTTTGGG AAGCTATGGA GGAGGACTTT
 4151 TAGATTTAGT GAAGATGGTA GGGTGGAAAG ACTTAATTTT CTTGTTGAGA
 4201 ACAGGAAAGT GGCCAGTAGC CAGGCAAGTC ATAGAATTGA TTACCCGCCG
 4251 AATTCATTAA TTTACTGTAG TAGTGTTAAG AGAAGCACTA AGAATGCCAG
 4301 TGACCTGTGT AAAAGTTACA AGTAATAGAA CTATGACTGT AAGCCTCAGT
 4351 ACTGTACAAG GGAAGCTTTT CCTCTCTCTA ATTAGCTTTC CCAGTATACT
 4401 TCTTAGAAAG TCCAAGTGTT CAGGACTTTT ATACCTGTTA TACTTTGGCT
 4451 TGGTTCCATG ATTCTTACTT TATTAGCCTA GTTTATCACC AATAACACTT
 4501 GACGGAAGGC TCAGTAATTA GTTATGAATA TGGATATCCT CAATTCTTAA
 4551 GACAGCTTGT AAATGTATTT GTAAAAATTG TATATATTTT TACAGAAAGT
 4601 CTATTTCCCTT GAAACGAAGG AAGTATCGAA TTTACATTAG TTTTTTTCAT
 4651 ACCCTTTTGA ACTTTGCAAC TTCCGTAATT AGGAACCTGT TTCTTACAGC
 4701 TTTTCTATGC TAAACTTTGT TCTGTTTCACT TCTAGAGTGT ATACAGAACG
 4751 AATTGATGTG TAACTGTATG CAGACTGGTT GTAGTGGAAC AAATCTGATA
 4801 ACTATGCAGG TTAAATTTT CTTATCTGAT TTTGGTAAGT ATTCCTTAGA
 4851 TAGGTTTTCT TTGAAAACCT GGGATTGAGA GGTGATGAA TGGAAATTCT
 4901 TTCACTTCAT TATATGCAAG TTTTCAATAA TTAGGTCTAA GTGGAGTTTT
 4951 AAGGTTACTG ATGACTTACA AATAATGGGC TCTGATTGGG CAATACTCAT
 5001 TTGAGTTCCT TCCATTTGAC CTAATTTAAC TGGTGAAATT TAAAGTGAAT
 5051 TCATGGGCTC ATCTTTAAAG CTTTACTAA AAGATTTTCA GCTGAATGGA
 5101 ACTCATTAGC TGTGTGCATA TAAAAAGATC ACATCAGGTG GATGGAGAGA
 5151 CATTTGATCC CTTGTTTGCT TAATAAATTA TAAATGATG GCTTGAAAAA
 5201 GCAGGCTAGT CTAACCATGG TGCTATTATT AGGCTTGCTT GTTACACACA
 5251 CAGGTCTAAG CCTAGTATGT CAATAAAGCA AATACTTACT GTTTTGTTTC

FIGURE 1 CONT'D

5301 TATTAATGAT TCCCAAACCT TGTTGCAAGT TTTTGCATTG GCATCTTTGG
 5351 ATTCAGTCT TGATGTTTGT TCTATCAGAC TTAACCTTTT ATTCCTGTC
 5401 CTTCTTGAA ATTGCTGATT GTTCTGCTCC CTCTACAGAT ATTTATATCA
 5451 ATTCCTACAG CTTTCCCCTG CCATCCCTGA ACTCTTTCTA GCCCTTTTAG
 5501 ATTTTGGCAC TGTGAAACCC CTGCTGGAAA CCTGAGTGAC CCTCCCTCCC
 5551 CACCAAGAGT CCACAGACCT TTCATCTTTC ACGAACTTGA TCCTGTTAGC
 5601 AGGTGGTAAT ACCATGGGTG CTGTGACACT AACAGTCATT GAGAGGTGGG
 5651 AGGAAGTCCC TTTTCCTTGG ACTGGTATCT TTTCAACTAT TGTTTTATCC
 5701 TGTCTTTGGG GGCAATGTGT CAAAAGTCCC CTCAGGAATT TTCAGAGGAA
 5751 AGAACATTTT ATGAGGCTTT CTCTAAAGTT TCCTTTGTAT AGGAGTATGC
 5801 TCACTTAAAT TTACAGAAAG AGGTGAGCTG TGTTAAACCT CAGAGTTTAA
 5851 AAGCTACTGA TAAACTGAAG AAAGTGTCTA TATTGGAACCT AGGGTCATTT
 5901 GAAAGCTTCA GTCTCGGAAC ATGACCTTTA GTCTGTGGAC TCCATTTAAA
 5951 AATAGGTATG AATAAGATGA CTAAGAATGT AATGGGGAAG AACTGCCCTG
 6001 CCTGCCCATC TCAGAGCCAT AAGGTCATCT TTGCTAGAGC TATTTTTACC
 6051 TATGTATTTA TCGTTCTTGA TCATAAGCCG CTTATTTATA TCATGTATCT
 6101 CTAAGGACCT AAAAGCACTT TATGTAGTTT TTAATTAATC TTAAGATCTG
 6151 GTTACGGTAA CTAAAAGCCT GTCTGCCAAA TCCAGTGGA ACAAGTGCAT
 6201 AGATGTGAAT TGGTTTTTAG GGGCCCCACT TCCCAATTCA TTAGGTATGA
 6251 CTGTGGAAAT ACAGACAAGG ACTTAGTTGA TATTTTGGGC TTGGGGCAGT
 6301 GAGGGCTTAG GACACCCCAA GTGGTTTGGG AAAGGAGGAG GGAGTGGTGG
 6351 GTTTATAGGG GAGGAGGAGG CAGGTGGTCT AAGTGCTGAC TGGCTACGTA
 6401 GTTCGGGCAA ATCCTCCAAA AGGGAAAGGG AGGATTTGCT TAGAAGGATG
 6451 GGGCTCCCAG TGACTACTTT TTGACTTCTG TTTGTCTTAC GCTTCTCTCA
 6501 GGGAAAAACA TGCAGTCCTC TAGTGTTTCA TGTACATTCT GTGGGGGGTG
 6551 AACACCTTGG TTCTGGTTAA ACAGCTGTAC TTTTGATAGC TGTGCCAGGA
 6601 AGGGTTAGGA CCAACTACAA ATTAATGTTG GTTGTCAAAT GTAGTGTGTT

FIGURE 1 CONT'D

6651 TCCCTAACTT TCTGTTTTTC CTGAGAAAAA AAAATAAATC TTTTATTCAA

6701 ATAcaggggt tgatatgggt ctttctcat cgacgcctct tttccttcc

6751 ctctcttagg caaacctttt agagaagtca gctgagcaaa tatgtacagg

6801 tggaattcaa agcaaaagcc tcacaaagtt gatttgcctt agagcaaagg

6851 acagttcctt ctcaattct aattagaggt gttgggttt taattaaata

6901 tattactgct gtacttagag gagttcttaa acctccaagt aaaatcaaaa

6951 acctcttaa aatcaaaatt tctgtctga tttatttatt tattattttt

7001 ttttgagat ggagttttgc tctgttgc caggctggag tgcaatggcc

7051 agatctcgc tcaccgcaac ctccgcctcc aggttcaaatt gattctcctg

7101 cctcagcctc ctgagtagct gggaatacag gcatgcgcca ccacaccag

7151 ataatttgt attttgga gagatgggt tctccgtgt tggcaggct

7201 ggtctgaac tcccgacctc aggtgattgc ccacctctgc ctccagagt

7251 gccaggatac aggcgtgagc catcgaccc agcctctgc ttgattttt

7301 tgaatcacca ggtgttgga tgtttgtt tgtttgtt tgaggcacag

7351 tctactctt ttgccaggc tagagtgcag tggggcaatc tcggctcact

7401 gcaacctcag cctcccgagt agctgggatt acaggtgccc gccaccatgc

7451 ccggctaatt ttctatttt tggtagagac ggggtttgc cgtgttggtc

7501 aggcgtggtt gaagtcctga cctcagtgat ccactgcct cagccgaagt

7551 gctgcgatta cagacctgag ccactgcgcc cagcctgat ttgaggtaa

7601 gaggttactt acagcagtta tctatcataa cacctaaata atacctaaag

7651 ttaaagagtt ttgatgaagt tctggcagc agtgctttc ccctctgct

7701 ttcaaaaagg aggtaaaaag aagccagtca attcaaaaa ccctatcctg

7751 cttttattt cagctacctt gaaagtgagc tgaatcacca tggaaatgtg

7801 caaatgtgag gttgcatac ttggttttaa gccctgagca ccatatgcta

7851 atcaggcaat caggattctg tgctccctg cagtcagtgt catttctatt

7901 taaaagtga tttgggttg gaagcccctt ttggagccta actaccaaaa

7951 ggcagcaact tttgtatca ttacaaagaa agctgtgtaa gtgcactccc

FIGURE 1 CONT'D

8001 aagcaaaggt gtggtaggag agtagcagcc acagaggacc caagcccaag

8051 tcttgccctg agttaagta gtgctattgc tccattgac gtgctatgat

8101 gtgaagccgt ttctggtaca gtgttcctt gtcagcacc taaaagctt

8151 ggatttaata gtaactgggt aaccttaac agtagtcaga attatcaaca

8201 ctttgcttta ttgacacaa ccagacttc tcagttcctg ttctgtatct

8251 aga

CCCTTCTG

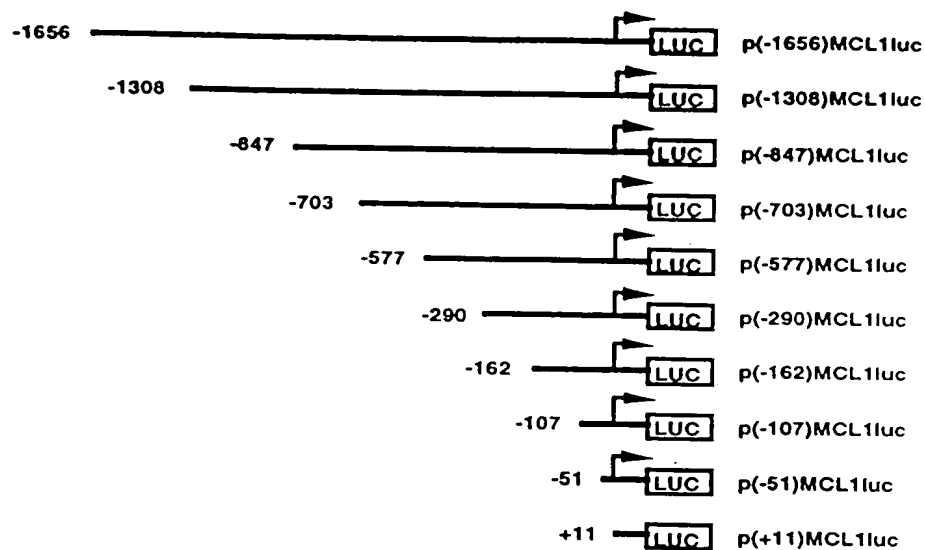


FIG. 2A

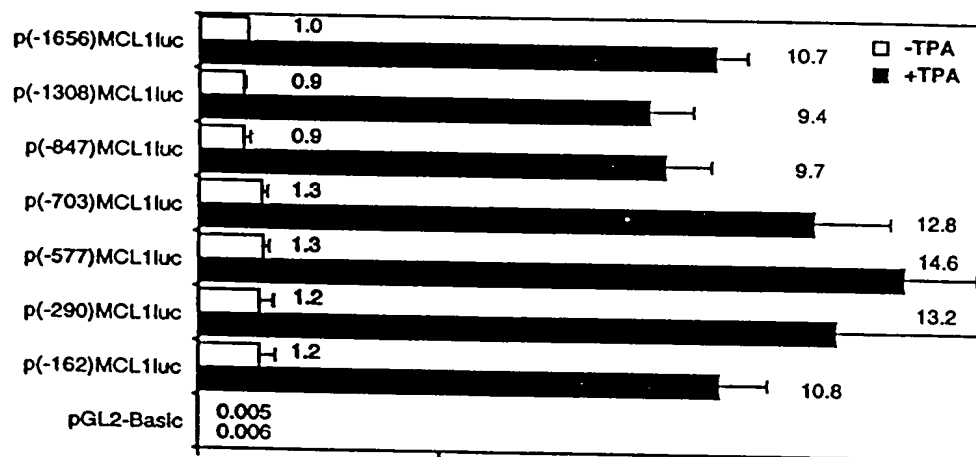


FIG. 2B

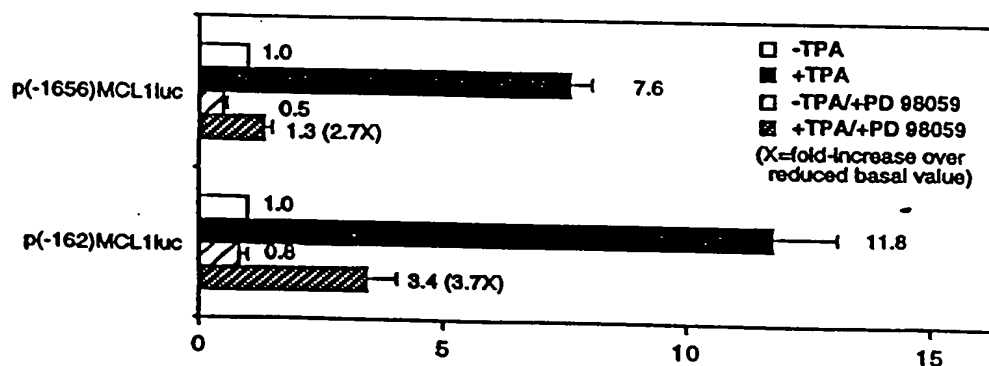


FIG. 2C

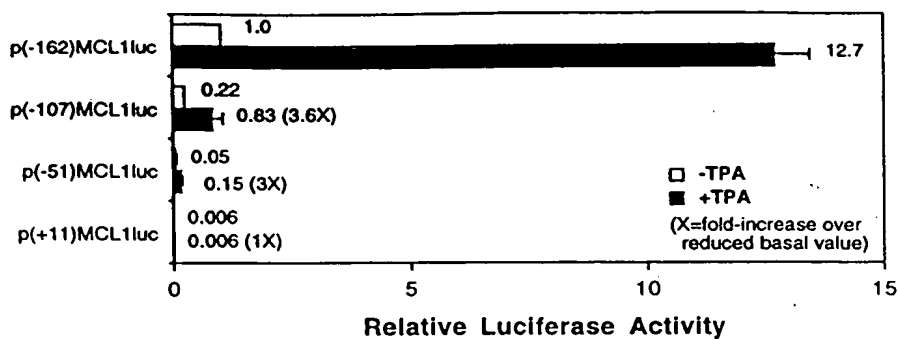


FIG. 3A

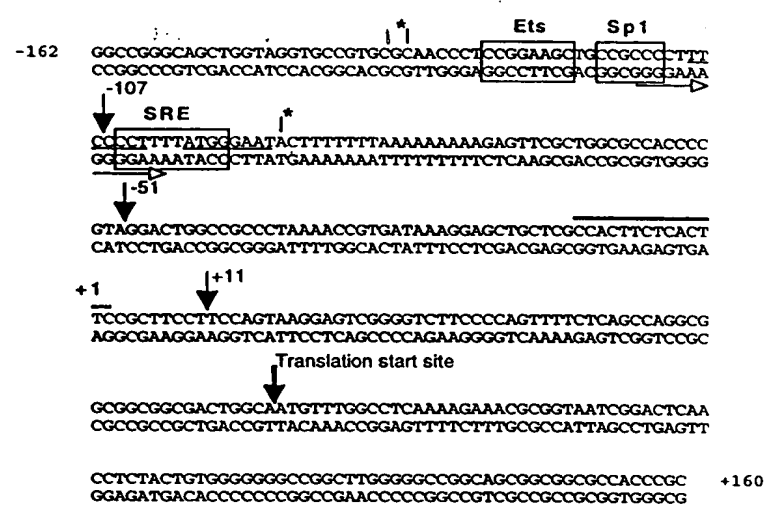


FIG. 3B

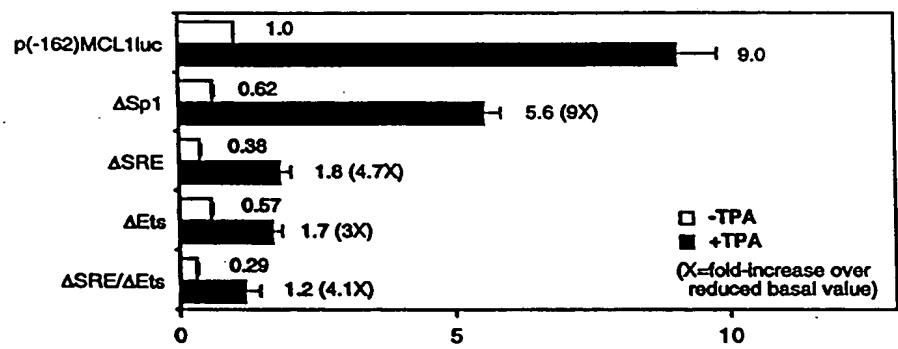


FIG. 3C

Mcl-1 ^{WT}	MFGLKRNAVIGLNLYCGGAGLGAGSGGATRPGGRLLATEKEASARREIGG	50
Mcl-1 ^{s/ΔTM}	MFGLKRNAVIGLNLYCGGAGLGAGSGGATRPGGRLLATEKEASARREIGG	
	-----PEST-----	
Mcl-1 ^{WT}	GEAGAVIGGSAGASPPSTLTDPDSRRVARPPPIGAEPDVTATPARLLFFA	100
Mcl-1 ^{s/ΔTM}	GEAGAVIGGSAGASPPSTLTDPDSRRVARPPPIGAEPDVTATPARLLFFA	
	-----PEST-----	
Mcl-1 ^{WT}	PTRRAAPLEEMEAPADAIMSPEEELDGYEPEPLGKRPAVLPLLELVGES	150
Mcl-1 ^{s/ΔTM}	PTRRAAPLEEMEAPADAIMSPEEELDGYEPEPLGKRPAVLPLLELVGES	
	-----PEST-----	
Mcl-1 ^{WT}	GNNTSTDGSLPSTPPPAEEEEDELRYQSLEIISRYLREQATGAKDTKPMG	200
Mcl-1 ^{s/ΔTM}	GNNTSTDGSLPSTPPPAEEEEDELRYQSLEIISRYLREQATGAKDTKPMG	
	-----exon 1 exon 2-----	
	BH3	
Mcl-1 ^{WT}	RSGATSRKALETLLRRVGDGVQRNHETVFQGLRKLDIKNEDDVKSLSRVH	250
Mcl-1 ^{s/ΔTM}	RSGATSRKALETLLRRVGDGVQRNHETVFQGWVCGVLPCRGP RRWHQECAA	
	-----exon 1 exon 3-----	
	BH1	
Mcl-1 ^{WT}	IHFESDGVYTMGRIVTLISFGAFVAKHLKTINQESCIEPLAESITDVLVR	300
Mcl-1 ^{s/ΔTM}	GFCRCWRSRSWFGISNKLALL	271
	-----exon 3-----	
	BH2 TM	
Mcl-1 ^{WT}	TKRDWLVKORGWDGFVEFFHVEDLEGGIRNVLLAFAGVAGVGAGLAYLIR	350

FIG. 4A

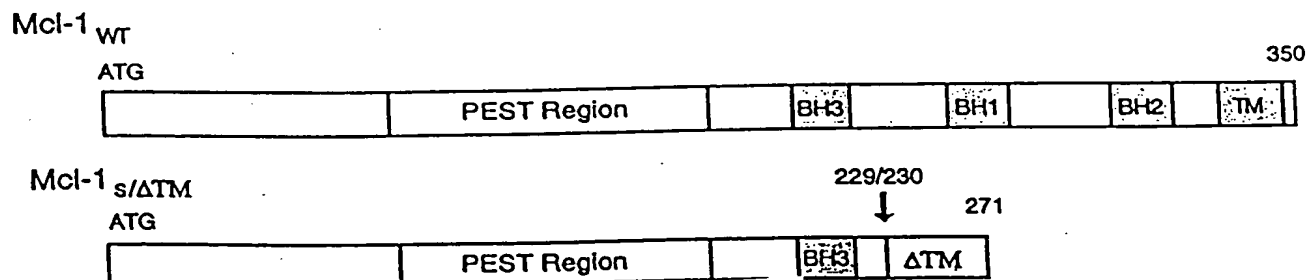


FIG. 4B

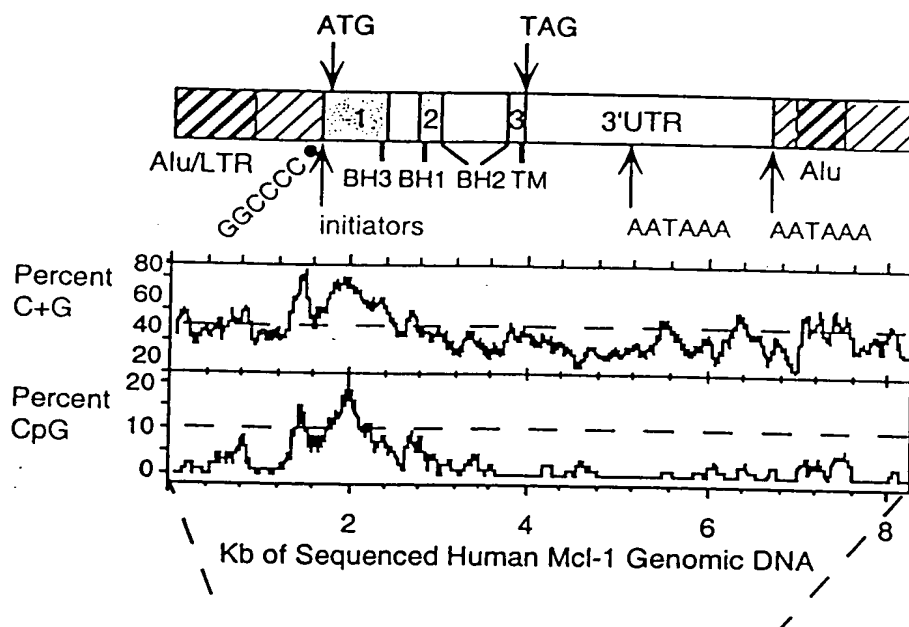


FIG. 5A

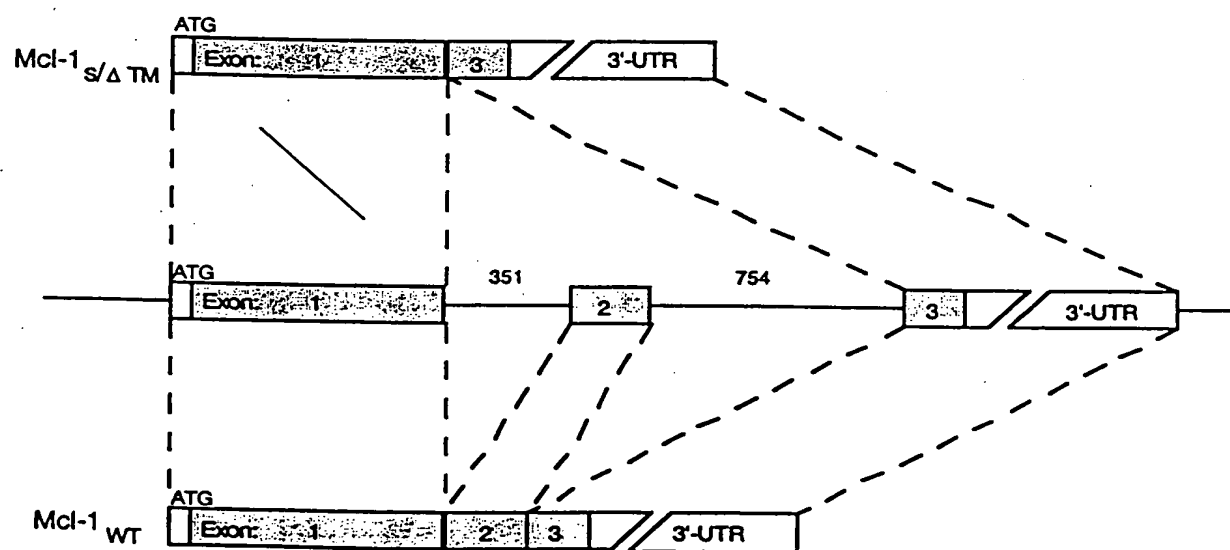


FIG. 5B